

cost. In addition, human physiology may also be compromised in the form of neck and back strain, and even nausea from visual disorientation as a user is required to constantly shift focus from the camera to the video monitor. In addition, the camera unit in this sett is fixed in orientation, thus requiring that the object be brought to the instrument, which may not always be possible or convenient.

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[0023] In an exemplary embodiment of the present invention as shown in FIG. 3, the processor system 405 include sub-processors 401 and 402 having dedicated memory storage mediums 403 and 404. In this configuration, one of the sub-processors, such as 401 is dedicated to initializing the camera unit 600 and managing the transferring of raw image data from the camera unit 600 into the memory storage medium 403. The other sub-processor, such as 402, is dedicated to receiving user instructions from the control mechanisms 300, 301 and 302 and transferring data from memory storage medium 404 into display device 100. This sub-processor also performs image modification and manipulations as data is transferred from memory storage medium 403 to memory storage medium 404. In this way, faster processing of the images and the user-inputted instructions is achieved. In addition, each of the sub-processors is provided with its own memory storage unit, such as memory storage mediums 403 and 404 to store instructions and images for that processor.